

# TYPE : 2T CONTACTORS

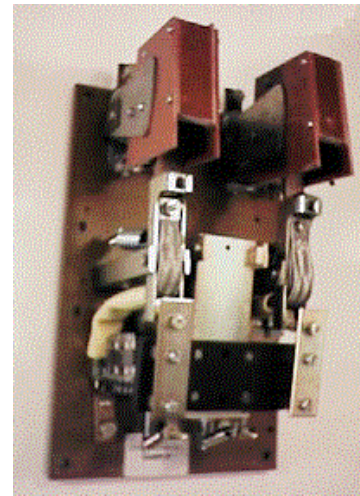


A range of clapper contactors offering reliable switching with access to inspect and maintain contacts and coil. Primarily for use where normally closed main poles or D.C. loads are required. 250A loads at up to 500V A.C. or D.C. can be accommodated.

## FEATURES

- 1 to 4 normally open or normally closed main poles
- Up to 250 Amps resistive and 160 Amps lighting load per pole
- Rectified control circuit for silent operation
- 230V 50/60Hz control voltage as standard
- Integral control circuit protection via H.R.C. fuse link.
- Open type or IP66 sheet steel enclosure
- Manufactured to BS EN 60947-4-1

Alternative A.C or D.C control voltages, D.C load switching and auxiliary contacts available as factory fitted options



## STANDARD CONTACTOR UNITS

POLES		ENCLOSED TYPE	
N/O	N/C	160A RATING	250A RATING
1	0	<b>2TSPN160/100E</b>	<b>2TSPN250/160E</b>
2	0	<b>2TDP160/100E</b>	<b>2TDP250/160E</b>
3	0	<b>2TTPN160/100E</b>	<b>2TTPN250/160E</b>
4	0	<b>2TFP160/100E</b>	<b>2TFP250/160E</b>

For Unenclosed units (open type) use the suffix **U** in place of the **E** given above.

Other main poles arrangements are available on request.

Use type 2D for 1-4 n/o poles with A.C. loads.

POLES		ENCLOSED TYPE	
N/O	N/C	250A RATING WITH N/C POLES	
0	1	<b>2T0-1P250/160E</b>	
0	2	<b>2T0-2P250/160E</b>	
0	3	<b>2T0-3P250/160E</b>	
0	4	<b>2T0-4P250/160E</b>	
1	1	<b>2T1-1P250/160E</b>	
1	2	<b>2T1-2P250/160E</b>	
2	1	<b>2T2-1P250/160E</b>	
2	2	<b>2T2-2P250/160E</b>	

## FACTORY FITTED OPTIONS

AUXILIARY CONTACTS	ALTERNATIVE CONTROL VOLTAGES			
1 to 3 auxiliary blocks with 1 n/o + 1 n/c contacts may be fitted. Add the reference <b>AUX</b> plus the number of blocks required.	Standard units have 230V A.C. control voltage. Add the option from the list below to the contactor reference			
	A.C. CONTROL VOLTAGES		D.C. CONTROL VOLTAGES	
<b>DC LOAD SWITCHING</b> This is achieved by the use of coil wound blowouts in place of the conventional arc-chutes. These are also effective on inductive A.C. loads. Add the option <b>DCL</b> to the contactor reference.	Voltage	Reference	Voltage	Reference
	12V a.c	<b>12AC</b>	12V d.c	<b>12DC</b>
	24V a.c	<b>24AC</b>	24V d.c	<b>24DC</b>
	50V a.c	<b>50AC</b>	50V d.c	<b>50DC</b>
	110-125V a.c	<b>110AC</b>	110-125V d.c	<b>110DC</b>
415V a.c	<b>415AC</b>	220-250V d.c	<b>220DC</b>	
Details on request for control voltages not listed above				

## ORDERING EXAMPLE Standard Reference

**2T 1-2P 250/160 E**

Contactor type \_\_\_\_\_  
 Number of main poles \_\_\_\_\_  
 (1 normally open + 2 normally closed)  
 Main contact rating (250A resistive, 160A lighting)  
 Enclosure (U for unenclosed type) \_\_\_\_\_

## Factory Fitted Options

**+DCL +AUX1 +110DC**

\_\_\_\_\_ Alternative Control Voltage  
 (110-125V d.c.)  
 \_\_\_\_\_ Auxiliary contacts  
 (1 n/o + 1 n/c)  
 \_\_\_\_\_ D.C. load switching

## SPECIFICATION

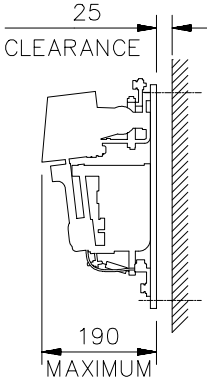
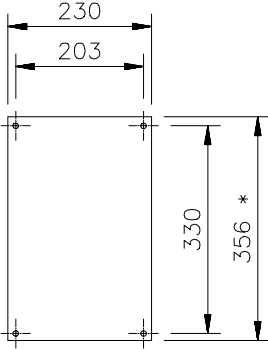
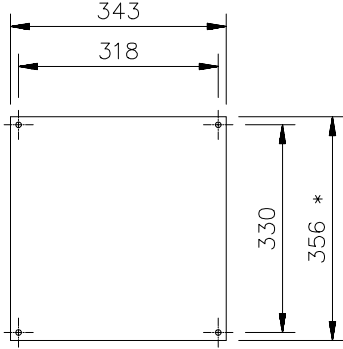
<b>CONTACT RATING at 500V A.C or D.C.</b>		
LOAD TYPE	160/100	250/160
HEATING (AC1, DC1)	160A	250A
LIGHTING	100A	160A
SODIUM LIGHTING	50A	80A
MOTOR (AC3, DC3)	63A	80A
CAPACITOR	63A*	100A*
TRANSFORMER	100A*	125A*

\* SPECIFY **DCL** FOR D.C. & INDUCTIVE LOADS

<b>TERMINAL CABLE SIZES</b>	
CONTROL	1 x 2.5mm <sup>2</sup>
MAIN	19mm COPPER TAPPED 5/16"W (SCREWS PROVIDED)

<b>AUXILIARY CONTACT RATING</b>				
UP TO 3 BLOCKS COMPRISING 1 N/O + 1 N/C AVAILABLE AS A FACTORY FITTED OPTION			5A at 250V A.C. 2A at 440V A.C. 0.1A at 220V D.C.	
<b>COIL CONSUMPTION</b>				
CONTACT RATING	IN-RUSH		SEALED	
	AC	DC	AC	DC
160A 250A	- 120VA	- 100W	34VA 57VA	28W 47W

## OUTLINE DIMENSIONS (mm) ALL FIXINGS SUIT M10 SCREWS

<b>OPEN TYPES</b>	<b>ALL 1, 2 &amp; 3 POLE TYPES EXCEPT 2T0-3P Weight : 5.1kg</b>	<b>ALL 4 POLE TYPES AND 2T0-3P Weight : 7.8kg</b>
		
	NOTE : Dimensions marked * increase by 20 when option <b>DCL</b> is fitted Weight increases by 1.8kg per pole	
<b>ENCLOSED TYPES</b> All enclosed types are fitted in an IP66 enclosure with door. Dimensions (mm): 600h x 400w x 307d. Weight: add 18.1kg to open types		

## RELATED PRODUCTS

Enbray Contactors has a well established name for reliable electrical load management and manufactures a wide range of load switching devices ranging from miniature pulse operated devices up to 1250A fully automatic changeover systems.

Specific customer requested configurations can be produced which are supplied with all control wiring in place and therefore require the minimum of installation time. These include Safety Contactors, Emergency Changeover Systems, Multipole contactors, Contactors with normally closed main poles etc. Details on request

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